

## NYLSTRONG

Reinforced nylon (PA6) that has a high impact resistance and a unique balance between ure and mechanical strength. In addition, its high thermal resistance makes this material perfect for industrial work.



Thermal resistance



Impact resistance

	VALUES	UNIT OF MEASUREMENT	STANDARD		
<b>PHYSICAL PROPERTIES</b>					
Chemical name	Polyamide with Fiberglass				
Density	1,58	g/cm <sup>3</sup>	ISO 1183		
<b>MECHANICAL PROPERTIES<sup>1</sup></b>					
	XY PLANE	ZX PLANE			
Tensile strength	50,7	-	MPa		
Traction module	-	-	MPa		
Flexion strength	98,5	16	MPa		
Flexion module	3364,3	251,8	MPa		
Elongation at maximum effort	4,5	-	%		
Stretch traction at break	5	-	%		
Elongation of flexion at break	7,1	10	%		
Charpy Impact Force (non-notched)	35	4	kJ/m <sup>2</sup>		
Hardness	-	-	Shore D		
<b>THERMAL PROPERTIES</b>					
Glass transition temperature (Tg)	-	°C	ISO 11357		
VICAT B (50 N 50°C/h)	196	°C	ISO 306		
HDT B (0,45 MPa)	194	°C	ISO 75		
<b>PRINTING PROPERTIES</b>					
Printing temperature	245 - 265	°C			
Bed temperature	90 - 110	°C			
Adhesion to the bed	Dimafix + BRIM				
Layer fan	0 - 50	%			
Material flow	95 - 100	%			
Layer height	≥ 0,2	mm			
Nozzle recommendations	≥ 0,6 (Steel)	mm			
<b>SIZE</b>					
SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Natural	INNOVATEFIL Box

NOTICE: The information provided in the data sheets is intended for reference only. It should not be used as design or quality control values. Actual values may differ significantly depending on printing conditions. The final performance of printed components not only depends on materials, design and printing conditions are also important.